RECEIVED

State of Illinois

Dept. & Div. ILL EPA-MPCP Inspector Gary R Minton (Signature) Date Inspected 8/1/85

Mine Name FIDELITY #11 Mine Company FREEMAN UNITED COAL MINING CO.

IEPA Permit No. IL0000302 M & M Permit No. _____ County PERRY

General Location APPROX 5 MILES WEST OF DU QUOIN

Arrival Time 10 AM Weather Conditions CLOUDY HOT WET

RECLAMATION TYPE (Check Appropriate Type)
Mine Includes Prime Land ___Yes/___No
Steep Slope Rule Applies ___Yes/___No
Coal Preparation ___Yes/___No
Not Applicable ___

Reason for Visit: ROUTINE

Persons Contacted:
GLEN HAMILTON - RECLAMATION SUP.
BILL SMITH - PERMIT MGR

PARAMETER CHECKLIST

1. Availability of: A___permits B___Plans

2. Imminent Danger to Public Health and Safety___

3. Significant Imminent Environmental Harm___

☐ TEMPORARY REPORT
☒ FINAL REPORT

4. Signs and Markers: A. mine entrance B. perimeter C. blasting D. topsoil E. perimeter observance 1. 100' zone 2. 300' zone F. permit area correlation G. not investigated H. not applicable

5. Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: (A) gob disposal 1. site capacity 2. covering 3. vegetation B. within permit area C. site approved D. slope of site E. steep slope rules F. valley fill or head of hollow fills: 1. permit area 2. location near ridge top 3. fill design 4. fill construction 5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement 9. engineer inspection G. not investigated H. not applicable

6. Soil Handling: A. removal before other disturbance B. storage C. protection D. thickness E. root medium F. other overburden G. toxic material handling H. root medium satisfactory for top soil replacement (slope, thickness, texture) I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegetation and mulching (N) not investigated O. not applicable

7. Prime Land: A. prime land determination B. soil horizon removal prior to other disturbance C. thickness removed D. approved horizon storage E. protection of stockpiles F. horizon replacement and thickness G. protection of replaced horizons H. grade (I) not investigated J. not applicable

8. General Water Quality and Hydrology: (A) waterways 1. unaffected area drainage diverted (2) affected area drainage ditches and berms 3. system maintenance (4) grading C. vegetation D. toxic material E. horizontal boreholes (F) sediment ponds: 1. size 2. structure 3. spillway 4. clean out 5. over 20' high or over 20 acre feet storage (___yes/___no) (6) seepage 7. structural weakness (8) discharge structure 9. chemical treatment system 9. (a). permitted ___yes/___no (G) discharge water quality H. buffer zone (100') observance I. zone markers (J). NPDES permits required ✓yes/___no K. water quality L. not investigated M. not applicable

Mine Name Fidelity #11

9. Stream Channel or Other Water Diversion: A. temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures (N.) not investigated O. not applicable

10. Road Hydrology: (A.) culverts (B.) ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. outslope drains H. construction material __toxic/__non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable

11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure (C.) freeboard (D.) stability (E.) seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure K. not investigated L. not applicable

12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated (H.) not applicable

13. Preparation Facility (includes crushing and screening): A. water circuit (1.) open system 2. closed system 3. no water circuit (B.) slurry impoundment (1.) berm stability (a.)) seepage (b.)) vegetative cover c.) freeboard 2. acid producing potential C. not investigated D. not applicable

14. Domestic Wastewater Treatment Facilities: A. type of system 1. activated sludge package plant 2. lagoon - sandfilters 3. septic tank w/sand filters 4. other B. sand filter maintenance 1. weeds 2. raking 3. sand replacement C. chlorination D. certified operator E. not investigated F. not applicable

LEGEND: O = parameter inspected: Ø = comment or question on the parameter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation.

✓ NO VIOLATIONS FOUND ✓ SEE ATTACHMENT

Indicated Parameter	Comments or Action Taken

No.	Check Column: Violation	Check Column: Non-Violation
GGW Comm		✓
8A2		✓
8B		✓
8G		✓
8J		✓

ATTACHMENT

Freeman United Coal Company
Fidelity #11
August 1, 1985

General Comments: During the investigation I spoke with Bill Smith, Permit Manager, and Glen Hamilton, in regard to the extension of the present refuse disposal area. I told Mr. Smith that our Permit Manager, Ed Bakowski, was preparing a Construction Authorization which should be issued within the next week or so.

8.A.2: I observed the western section of the active pit and surrounding terrritory and it appears that all affected area surface runoff water reports to a sedimentation pond before leaving the facility.

8.B: I observed the reclaimed portion of the eastern end of the site where final grading efforts were being achieved with Freeman's recent purchase of a land leveler. The land leveler appeared to be doing a very satisfactory job of filling in low area.

8.G: During the investigation I obtained a water sample and prepared and shipped it to the Agency's Champaign Regional Office Lab for analysis. The results of the analyses are listed below:

Sample #1 - obtained from Discharge 002 near the catwalk. The impoundment was discharging at approximately 500 gallons per minute and the water sample appeared clear.

LAB #B548486

Total Iron	0.3 mg/l	Suspended Solids	2 mg/l
Manganese	0.19 mg/l	pH	8.0
Chlorides	11.0 mg/l	Alkalinity	236 mg/l
Sulfates	2090 mg/l	Total Acidity	1.0 mg/l
		ROE	3290 mg/l

8.J: This site is permitted under NPDES Permit IL000302 which expires August 1, 1986. Note all DMRs have been submitted in accordance with permit conditions.

Gary L Minton

Gary L. Minton
Environmental Protection Specialist

GLM:bt
10/24/85

cc: MPCP/Records Unit
IDMM

Sample 1

WATER QUALITY [illegible] EFFLUENT SAMPLING FORM
ENVIRONMENTAL PROTECTION AGENCY

SAMPLE COLLECTED BY: GARY L MINTON

SAMPLING LOCATION: FIDELITY MINE #11

BASIN/SUB-BASIN: Big Muddy / PANTHER CR / BOUCOUP CR | TRIBUTARY: UNNAMED

CARD COL. 1 1 CARD NO. 1 | CARD COL. 1 2

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY: PP GA

DATE REC'D: AUG 15 1985 | TIME REC'D

DATE ANALYSES COMPLETED: SEP 5 1985

DATE RESULTS FORWARDED

TOTAL TESTS REQUESTED | TESTS RUN

LAB SECTION: CHAMPAIGN | SUPERVISOR: RJ

CARD NO. 2 | CARD COL. 1 3 | CARD NO

2 - 5 NCE BASIN CODE	6 - 7 PLANT OR STATION NO.	8 - 10 FIPS COUNTY CODE (USE ONLY FOR PLAN
11 - 17 B548486 LAB ID NO.	11 - 17 B548486 LAB ID NO.	11 - 17 B548486 LAB ID NO
18 T SAMPLE TYPE CODE (SEE LIST BELOW)	18 T SAMPLE TYPE CODE	18 T SAMPLE TYPE CODE
19 - 20 85 YEAR	ARSENIC 19 - 22	PLANKTON (NO/ML) 19 - 23
21 - 22 08 MONTH	BARIUM 23 - 25	FLUORIDE 24 - 26
23 - 24 01 DAY	BORON 26 - 28	CHLORIDE 27 - 30 11
25 - 26 11 HOUR (NEAREST)	CADMIUM 29 - 32	SULFATE 31 - 34 2090
27 A TIME OF DAY (A.P.N.)	CHROMIUM (HEX) 33 - 35	TOTAL SULFUR 35 - 38
28 - 30 WATER TEMPERATURE (DEG. F.)	CHROMIUM (TRI) 36 - 38	OIL 39 - 42
31 - 33 FIELD D O	CHROMIUM 39 - 41	M.B.A.S. 43 - 46
PH (UNITS) 34 - 36 8.0	COPPER 42 - 45	CARBON CHLOROFORM EXTRACT 47 - 50
TOTAL PHOSPHORUS 37 - 40	CYANIDE 46 - 49	TURBIDITY (UNITS) 51 - 54
AVG BOD. 41 - 44	IRON (T) 50 - 53 R4 0.3	RESIDUE ON EVAP. 55 - 58 3290
C O.D. 45 - 48	IRON (DISSOLVED) 54 - 56	VOLATILE SUSP. SOLIDS 59 - 62
PHENOLS 49 - 52	LEAD 57 - 60	COLOR (UNITS) 63 - 65
53 - 59 FEC COL. (#/100ML)	MANGANESE 61 - 63 0.19	HARDNESS 66 - 68
AMMONIA N 60 - 63	MERCURY (MICRO GM L) 64 - 66	ALKALINITY 69 - 71 236
NITRATE + NITRITE AS N 64 - 66	NICKEL 67 - 69	TOTAL ACIDITY 72 - 74 61 To pH 8.2 B+Q
ORGANIC N 67 - 69	SELENIUM 70-72	FREE ACIDITY 75 - 77
TOTAL N 70 - 72	SILVER 73 - 76	OTHER TESTS REQUIRED
T.D.S./ E.C. 73 - 76	ZINC 77 - 79	[ ] YES (REFERENCE REVERSE SIDE)
TOTAL SUSP. SOLIDS 77 - 80 2	ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.	[ ] NO

SAMPLE TYPE CODES:
A = DOMESTIC WASTE ONLY
E = INDUSTRIAL WASTE ONLY
I = MIXED DOMESTIC & INDUSTRIAL WASTE
S = STREAM, LAKE, OR RECEIVING WATER
T = MINE DRAINAGE OR WASTE
X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY: G Minton

RECEIVED BY

DATE REC'D | TIME REC'D AM PM

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Gage Height (or top of ice) or R.P. to W.S.:

Sampling Techniques: GRAB

Flow conditions (velocity etc.) 500 GPM

Identification Nos on pH and Sp. Cond. meters:

Weather Conditions: COOL CLOUDY

Comments and unusual conditions (indicate severity): WATER SAMPLE CLEAR FISH IN CHANNEL

WPC-129 REV. 3/78